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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,534	08/20/2001	David A. Grilli	TRW(AP)5727	5816
26294	7590 02/04/2005		EXAMINER	
TAROLLI, SUNDHEIM, COVELL & TUMMINO L.L.P. 526 SUPERIOR AVENUE, SUITE 1111 CLEVEVLAND, OH 44114			SMITH, JULIE KNECHT	
			ART UNIT	PAPER NUMBER
	,,		3682	
			DATE MAILED: 02/04/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Comments		09/933,534	GRILLI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Julie K Smith	3682			
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	th the correspondence address			
THE I - External after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by eply received by the Office later than three months after the department adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a rion. s, a reply within the statutory minimum of third period will apply and will expire SIX (6) MON y statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on	15 November 2004.				
2a)⊠	This action is FINAL . 2b)	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice ur	nder <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.			
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>1,3-12 and 14-37</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	5) Claim(s) 29-37 is/are allowed.					
	☑ Claim(s) <u>1,3-12 and 14-28</u> is/are rejected.					
8)[Claim(s) are subject to restriction	and/or election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 August 2001</u> is/are: a)⊠ accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	The path or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
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Attachment	(s)					
	e of References Cited (PTO-892)	4) 🔲 Interview S	ummary (PTO-413)			
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-94	18) Paper No(s)/Mail Date formal Patent Application (PTO-152)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-8, 11, 12, 14, 15, 18-24, 27 and 28 are rejected under 35

 U.S.C. 103(a) as being unpatentable over Sawada et al. (Re. 36,898) in view of Reidy et al. (6,386,579). Sawada et al. disclose a steering wheel with a rim portion, a spoke portion, and a foamed padding material, adhered to the spoke portions, having a first portion (1b) with a substantially uniform cell density and a second portion (1a) with a continuous external surface free of interruption by a cell, the padding material comprising a gasified chemical foaming agent (see col. 8, lines 10-12) and a thermoplastic polyolefin elastomer, such as polypropylene, with a shore hardness of less than 90. The foaming agent is either exothermic or endothermic and the foamed padding includes a colorant, stabilizers, or fillers (see col. 4, lines 25-36). The wheel is manufactured by injection molding. The elastomer and chemical foaming agent are mixed, the mixture foamed and then adhered to a steering wheel armature to form the padding material. The elastomer is melted to fit the mold.

Sawada et al. discloses a cover, as claimed, but does not disclose the cover covering the spoke and rim portions of the steering wheel. However, Reidy et al. teaches an airbag cover that covers the spoke and rim portions of the steering wheel.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the padding of Sawada et al. with the teachings of Reidy et al. so as to provide a cover that is adhered to the spoke and rim portions of the steering wheel to ensure strength and continuity across the steering wheel, while providing good wear characteristics along the rim of the steering wheel.

Further, Sawada et al. discloses a foamed padding, as claimed, but does not disclose whether the material is plasticizer-free. However, Reidy et al. discloses a foamed padding for a steering wheel that plasticizer-free.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the padding of Sawada et al. with the teachings of Reidy et al. to omit plasticizers, as they can migrate to the surface of the padding and cause problems with adhesion or paints.

Claims 9, 10, 16, 17 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. in view of Reidy et al. as applied to claims 1, 3-8, 11, 12, 14, 15, 18-24, 27 and 28 above, and further in view of Braun et al. (WO 99/10419). The reference combination set forth above discloses the claimed invention except for the encapsulation of the foaming agent. However, Braun et al. disclose that it is known in the art to provide an impregnated polyolefin granule containing a foaming agent.

Therefore, it would have been obvious to one of ordinary skill in the art to provide the foaming agent of the reference combination set forth above within a capsule, as taught by Braun et al. in order to avoid contamination of the surroundings.

Allowable Subject Matter

4. Claims 29-37 are allowed.

Response to Arguments

5. Applicant's arguments with respect to claims 1, 3-6, 8-12 and 14-28 have been considered but are moot in view of the new ground(s) of rejection.

Regarding claim 7, applicant argues that Reidy et al. does not teach an airbag cover that is plasticizer-free, but merely teaches against plasticizer migration. Reidy et al. discloses that in the past steering wheels and airbag covers were made separately and the steering wheels contained plasticizers for strength. However, Reidy et al. integrates the airbag cover and the steering wheel by making them both out of the same elastomer, thus eliminating the need for the steering wheel containing the plasticizer. Therefore, the cover is plasticizer-free.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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off).

SIX MONTHS from the date of this final action.

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie K Smith whose telephone number is 703-305-3948.

The examiner can normally be reached on Monday-Friday, 8-5:30, (Every other Friday)

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703-308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/2/05

Jks

January 25, 2005